

GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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Since many of the items lack a specific
page number, the page number displayed
online refers to the sequentially created
number each item was given upon
cataloging the materials.*

Jeffreyi

Bolander collected in July 1866 a form of *podocarpus*
on Mount Rainier, Mariposa Grove, 8-9000
feet alt. which has leaves only 4-6 inches long.
young cones intermediate in size, but remarkable
for the recurved apophyses or tubercles (all
that is seen of the young scale,) ridged above
Male fl. also short
3-4 ^{series of} blunt ~~blunt~~ on each side above, & on the
convex side below



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12029

wore sep patch.

Jefferson Mountain

near Long point 3 yrs

grown at Jeff. 1 $\frac{1}{2}$ - pond 10" bottom soil

Jeff. abn 5000' especially east slope
of - vs dry soil

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1914 *Pinus Jeffreyi* Brewer writes - July 20 1863 now thinks
now

Common on east slope. Trees 4-6 feet high, not so high or slender
than *P. ponderosa* & leaves 5-8 inches long, ^{young} sheaths nearly 1 inch
on old ones $\frac{1}{2}$ inch

Bark darker, rougher and not cleaving in such large
plates as *ponderosa* and on Mono Lake even larger

Cones off 12 inches long V , about 2 or 3 together, at nearly
right angles



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112-
19 20
v, The baby's mawel
rose this
fall somewhat
with it & therefore
to have you
see her, as I
little satisfied.
Respectfully
Mrs. H. H. Meyer

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Yours Respe^d
Chas H. W. le

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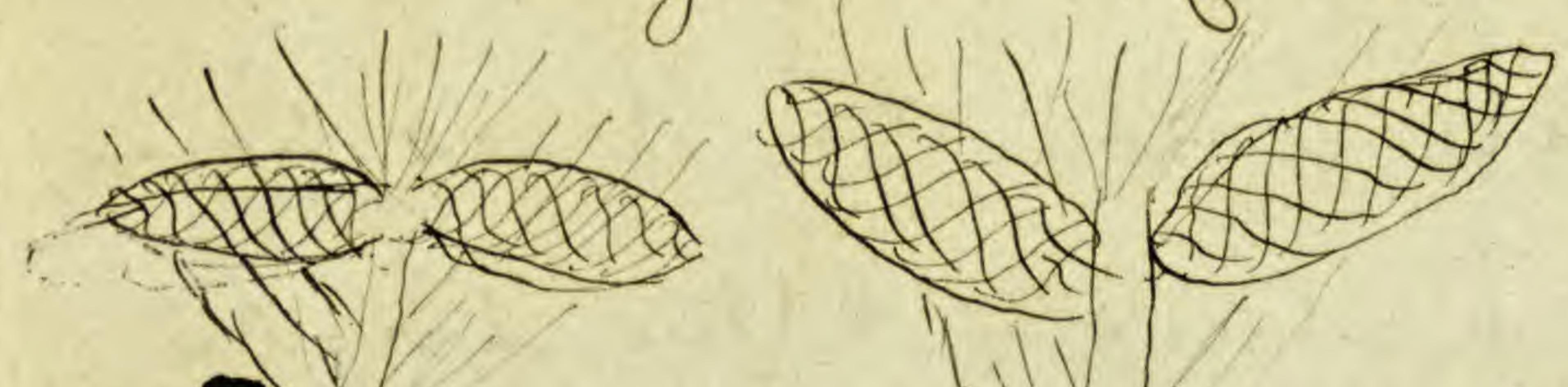
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on horizontal on ascending

Yellow & Black } Glaucous. Sierra Valley, Cal. Mar. 31, 1888
Horizontal. Inclined.

Baileya *Jeffreyi*

Rec'd April 7th
ans - 1/4

My dear Dr.

Herewith is another lot of pine specimens, principally bark, and berries.

I have tried to find permanent characters in the varieties of ponderosa with varying results.

No 1. is bark from a tree of the glaucous-leaved form, about 3 ft in dia. bears heavily on alternate years. large cones, always with recurved micros to the scales. This tree and its neighbors have a reddish appearance, & are quite symmetrical.

in limbs, young cones larger 1 1/4 inches long, with recurved micros, timber generally pitchy. If the tree stands alone like the others of the species the bark is thin, (as I reported before,) but in the forest it is the thickest of any var. crooked in seasons somewhat longitudinal.

The saplings of this var. present a widely different appearance from the others. The bark remains white and unbroken like the *Lambertiana*, and covered with the glaucous powder, until the stem reaches considerable size 6 to 8 inches.

No 2. Bark of the black or swamp pine. (often very pitchy.)

" 3 " " yellow " pitch " with fewer sapwood rings.



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Different as these specimens appear and the trees from which they are taken get the young trees, the limbs leaves, & cones are identical. The black, deeply & numerously cracked bark of the first can be seen in all stages approaching the second. Extreme forms of the latter have the bark broken into large flat sections relatively thin and smooth caused by the scaling off & nesting of the outer grains. Cones of both of these forms present variable scales ~~and~~ directions to the inward. Generally all the cones ^{spurs} of one tree will be curved one way, but which way seems to be variable. Also the pustulate base of the spur varies in size. The leaf arrangement is slightly irregular. From all which it conclude that Nos 2 & 3 of this sending, the yellow & the swamp pines of former descriptions, shade into each other inextricably.

Not so with the glaucous-leaved var. I wish ^{report upon} had time to investigate & ~~intervene~~ this subject further.

The trees are not abundant, scattered here & there (here at least) generally in groves, readily distinguished at all ages.

But I remember that around Saloe with Hooker & Gray the distinctions faded out.

No 4 is a half-cone of the glaucous pine. (No 2)

.. 5 & 5^(a) cones of the black or swamp pine, and of the white-barked, yellow, most abundant pine, No 3, different as are these cones I've often found their characters reversed. The young cones are small $\frac{1}{4}$ to an inch long.

Have been sick and my thoughts & discernment are not clear. Commence my summer travel to-morrow.

Yours respectfully

J. G. Penniman.

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1. Lobb. 1857 Calif. tree 200' alt. 4-8000 ^{46 Nov 9th 1869} marked

P. Benthamicana - leaves 15 out by ²^{1/2} in. sheaths fully 2^{1/2}² in.
at last almost entirely disappear, only 5" long -
immature ~~Leaves~~ ^{P.} 3 out long

California, Beardsley = *P. Beardsleyi* Munro. Nov Pl. J. 1855 p. 286
is a slender green branch of *pondosae*, leaves 15-20 out
long - smooth green or 25 by, young sheaths 2^{1/2}² in., at last
only 1 out long.

P. pondosae Syall, Dallas : long green, stout plant, with
epicote zone.



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Pi Bushmanniana Hartog Junc
in Journ Bot Soc. II (1847) 189

Mountains of Santa Cruz : leaves 11" long
in 3², longer than the cones ; these are 5"
long & $2\frac{1}{2}$ ", centre of sole terminating in
a small sharp point bent downward,
tree 100', diam 3-4'; cones
in clusters of 3 or 4 -

I name it in honor of G. Bushman



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found 2 or 3 specimens of it
last summer on a field still
in its wild condition, but they
were near a house. I shall let
you know at once, if I see
it again.

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Yours truly

W. Lutesdorf

White Salmon, Wash. Decr.

120054

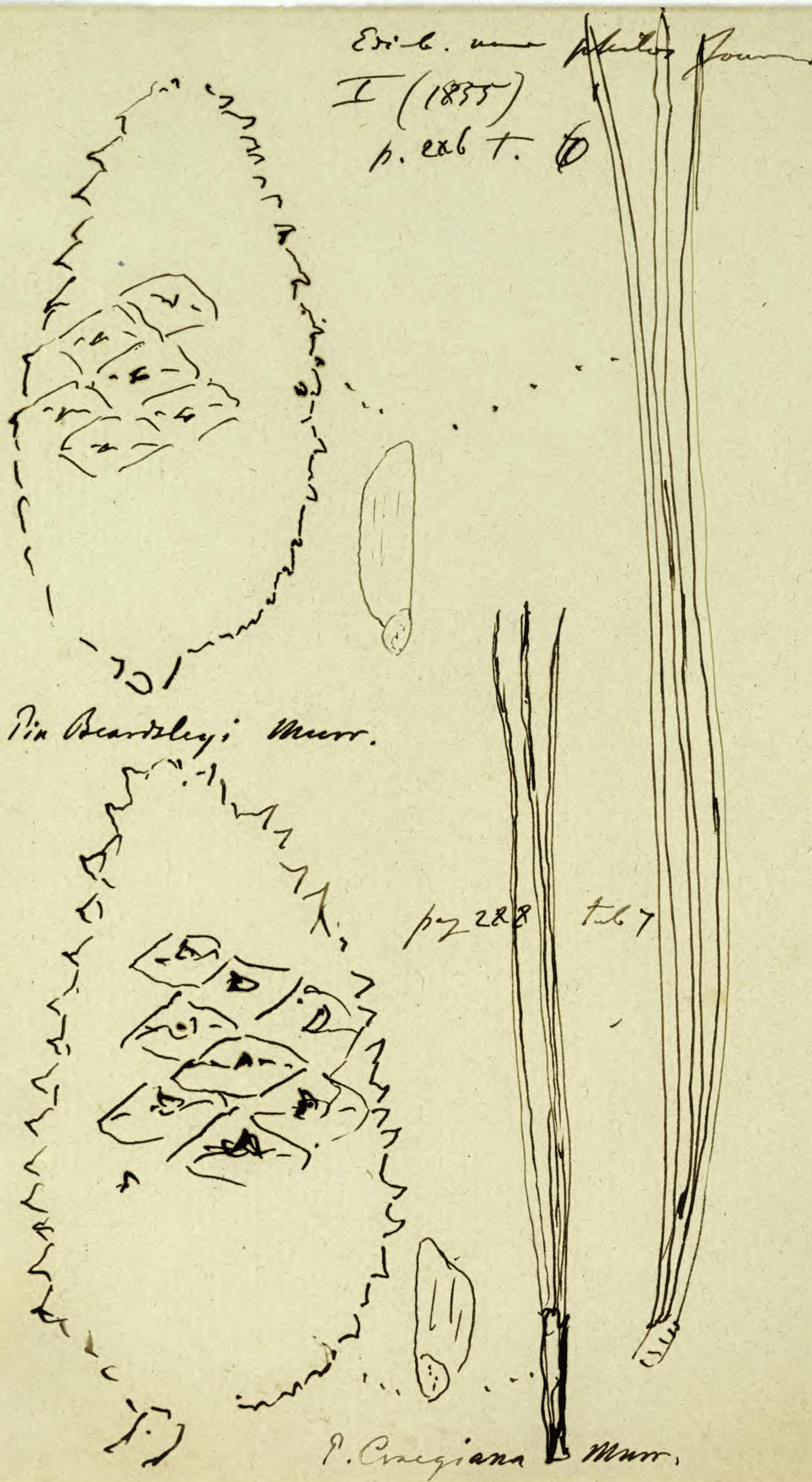


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Eric. var. *Acuminata* Poir.
I (1835)
p. tab t. 6

Pin acuminata Murr.

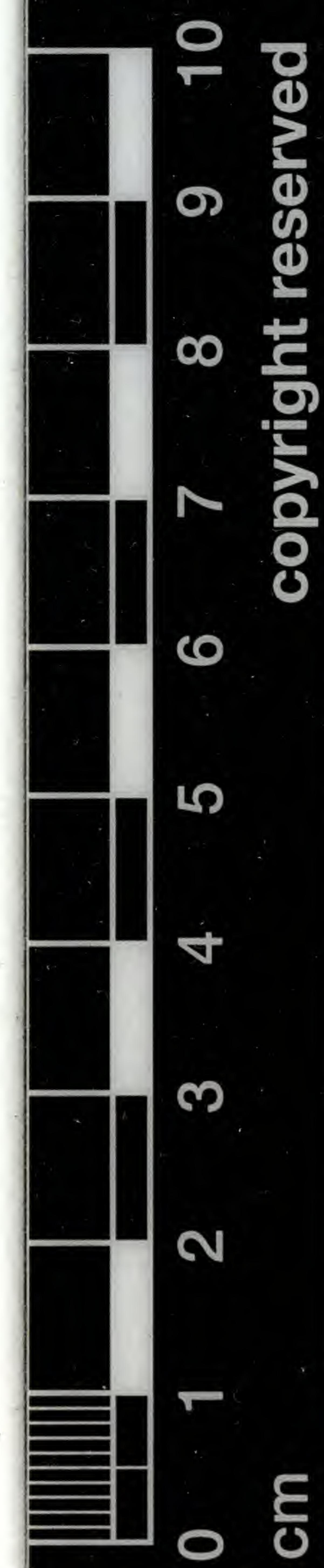
pl 288 tab 7

P. corymbosa Murr.

REPROD. ENGRAVING BY J. S. GARDNER
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Pinus Benthinii Hartw.
copied from Hartweg's Sketch (unpublished
by Murray).
Ed. N. Amer. Philos. Trans. 1 tab 8
This must be wrong, — this species is near so alike
as here figured.

leaves
11 inches
long



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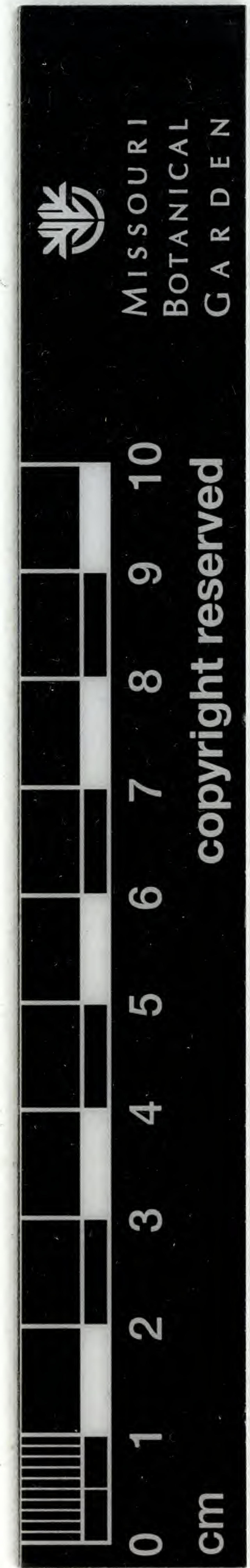
1912

1982

8047

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A detailed pencil sketch of a plant structure, possibly a root system or a series of interconnected chambers, showing various nodes, roots, and a central cavity. The drawing is oriented vertically and includes a scale bar at the bottom left.



8

P. ponderosa

1147-79



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GEO. ENGELMAN, M. D.

Office & Residence; 3003 Locust St.

P. ponderosa

Borner : very tall over 300', plates of bark enormously large 12-20 in. broad. Up the Sierras they are smaller more branched, plates of bark less large, fissures deeper, cones longer; Jeffreyi - this is the prevailing form east of the Sierras (Lake Tahoe) it has also a rounded head.

Baldwin On both sides of the Sierra coastline and near the coast it is more distributed than any other conifer. On all the higher parts of the coast ranges - northward (Edenvale) also in the plain.

Borner 1914 Jeffreyi 4-6' dia - not so high and slender as ponderosa, bark rougher, cones at right angles off a short long



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MACDONALD & CO.



PRESCRIPTION DRUGGISTS,

3005 OLIVE STREET,

West Garrison Avenue,

ST. LOUIS.



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Pinus ponderosa var. *affregei*?

west side of Sierran Valley, 4300 feet high.
California.

J. G. Lemmon

Jan 1879.

Leaving specimens from the top of a robust tree, on
the edge of the forest 75 feet high, 3 feet diam.
limbs very symmetrical, in whorls. Bark thin
broken into small sections by shallow cracks
a very symmetrical, heavily foliaged tree, oft perfectly
conical. Tree 150 - 200 feet high

bark blackish, fairly broken, sections 3-8 inches
long as half as wide timber little prized: called:
"Black" or "Swamp", or "Bell" or "Pill" Pine.

[Som confused?] Black scaled twigs. Cones medium
heartwood pitchy, dark, brittle - hard to split.



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Die Verlobung ihrer Tochter JOHANNA mit dem
Königlichen Geheimen Ober-Finanzrath Herrn
OTTO HOFFMANN beeihren sich ergebenst an-
zuzeigen

der Kammergerichts-Rath
Schüffle und Frau.

Berlin, den 14. Juni 1873.



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